RADview-EMS/TDM (Unix)

Element Management System for TDM Applications

Version 1.7

Installation Guide

RAD data communications

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1. Package Contents

The RADview-EMS/TDM (Unix) package includes the following items:

- RADview-EMS/TDM (Unix) Installation CD
- RADview-HPOV database (Informix) CD
- RADview-EMS PC Client Installation CD
- Installation guide
- Technical Documentation CD.

2. System Requirements

RADview-HPOV for TDM Applications version 5.9 can only be installed over the Solaris™ 10 Operating System, according to the following minimum hardware and software requirements.

Hardware Requirements

For networks consisting of up to 300 managed elements:

- Sun Fire V215 Server with XVR-100* graphics card or Sun Ultra 25
- 2GB RAM or higher
- Swap file should be twice RAM size
- Hard disk with at least 2 GB free disk space under /opt partition
- Hard disk with at least 600 MB for Informix directory

- 1152x900 display resolution or higher with depth 24.

Note

- *For each 3 additional simultaneous users via X-session add 1 GB RAM and 1 CPU. (When using EMS client on a different workstation there is no need to add RAM or CPU)*
- *For each additional simultaneous open zoom application add 75MB RAM (via X-session only)*
- *For larger networks, consisting of more than 300 managed elements, see* Table 1.

Table 1. HW Scaling Guideline – Solaris

Managed Elements	System	No. of CPUs	RAM
Up to 300	Sun Fire V215 or Sun Ultra 25	1	2 GB
300 to 1000	Sun Fire V215	2	2 GB
1000 to 2000	Sun Fire V490/V890	4	4 GB
2000 to 5000	Sun Fire V890	4	8 GB

Software Requirements

- Solaris 10, Nov 2006 or later
- During installation choose "Select to include Solaris 64 Bit Support"
- CDE 1.4 or higher
- HP Open View NNM 7.50 or later
- Up to 250 nodes HPOV NNM Starter Edition can be used, however, for more than 250 nodes contact HPOV local distributor.

Note *All the requirements and Table 1 apply to a single-user scenario. If several users use RADview simultaneously, additional resources may be required to maintain satisfactory performance as indicated above.*

Note *No other Solaris versions are supported (for example, versions 2.5.1, 2.6, 2.7 are not supported).*

Note *A license server is integrated into RADview. The license server protects the SW by restricting the installation of the RADview package onto a single host/computer, and restricting the number of network elements that can be managed by the system (according to the installed RADview license details).*

In case you install this RADview version as an upgrade to an existing system, you will be required to install a license. Refer to Chapter 4 for additional details.

3. Installation

Installation Sequence

Note *The RADview-EMS/TDM (Unix) package should be installed **only after** Solaris 10 and HPOV NNM 7.5 are properly installed on the station. For more information about the installation of these platforms, refer to their documentation.*

The RADview-EMS/TDM (Unix) package must be installed in the following sequence:

1. *Install the Informix Database*
2. *Install RADview-HPOV/TDM (optional, see note)*

Note *Install RADview-HPOV/TDM before installing RADview-EMS/TDM only if you need to manage devices that are managed by the RADview-HPOV/TDM package. For installation instructions, see the* RADview-HPOV/TDM User Manual.

3. *Install RADview-EMS/TDM*
4. *Install Additional PC Clients (optional).*

Note *All installations must be performed on one computer station, and in the order specified above.*

Installing the Informix Database

RADview-EMS/TDM (Unix) uses the Informix database, which must be installed prior to installing the RADview-EMS package.

Before initiating the Informix installation, close all running applications.

➤ **To perform the Informix database installation:**

1. Log in as **root**.
2. Type: **csh**
3. Insert the RADview-HPOV database CD into the CD drive.
4. Type: **cd /cdrom/cdrom0/Informix**
5. Type: **./informix.install**
6. When prompted, type the Informix home directory path **/export/home/Informix**.

Note *During the Informix installation the **/etc/system** file is automatically updated. The installation script prompts you to confirm a system reboot, so that the modification can take effect.*

7. When prompted, confirm the system reboot.
8. When the reboot completes, log in as **root**.
9. Type: **csh**
10. Type: **cd /cdrom/cdrom0/informix**
11. Type: **./informix.install**

    Informix installation continues until complete, at which time the prompt (**#**) reappears.

Installing the RADview-EMS Package

Once Informix database is installed, install the RADview-EMS package.

Starting with the Initial Components

➤ **To install the RADview-EMS components:**

1. Log in as **root**.
2. Type:

```
csh
cd  /tmp
source  /<INFORMIXDIR>/.mng164_inf.csh.
```

Note *Replace <INFORMIXDIR> with your Informix installation directory (for example, /export/home/informix).*

3. Insert the RADview-EMS/TDM (Unix) Installation CD into the CD-ROM drive.
4. Type: **cd /cdrom/cdrom0/radview**.
5. Verify that Informix is running by typing:

   onstat –

   If Informix is online the following message appears:

   INFORMIX-OnLine version 7.31.UDI - -On-Line- -

6. Type: **./install_gui.rad**.

   The RADview Installation warning appears.

7. Click <**OK**>.

   The RADview Installation Product List appears.

8. Select the product(s) to be installed or select all and click <**Install**>.

A confirmation dialog box is displayed.

9. If the displayed Informix installation directory is correct, click ‹**Yes**›.

   The installation continues to the **EMS/TDM Setup Wizard** stage.
   Skip to *Continuing with RADview-EMS/TDM*.

10. If the displayed Informix installation directory is not correct, click ‹**No**›.

    A dialog box requests you to type the correct Informix Installation path.

11. In the Installation Path dialog box, type the Informix installation path and click ‹**OK**›.

    If the path is correct, the installation continues to the **EMS/TDM Setup Wizard** stage; skip to *Continuing with RADview-EMS/TDM*.

    If the path is not correct, an error message appears informing you that the directory does not exist. In such a case, click **‹OK›** and re-enter the path.

Note *If this is an upgrade of an existing installation, a confirmation message box appears and requires your confirmation to overwrite the contents of the existing database directory. Click ‹**Overwrite**› to overwrite and complete the installation. To cancel the installation without overwriting, click ‹**Quit**›.*

Continuing with RADview-EMS/TDM

Once the initial EMS components are installed, the RADview-EMS/TDM Setup Wizard is automatically displayed.

➤ **To continue with the RADview-EMS/TDM installation:**

1. In the Welcome dialog box, click ‹**Next**›.

   The Select Installation Type dialog box is displayed.

2. Select **Server and Client**.

Note

- ***Server Only*** *is an option for the distributed system installation. For more information, consult with Technical Support.*
- ***Client Only*** *is an option to be used only when setting up a PC-based client (not valid for Unix installations). For more information, see Installing Additional PC Clients (Optional) on page 11.*

3. Click <**Next**>.

   The Select Installation Method dialog box is displayed.

4. Choose the installation type:

   Typical – for installation with the default settings.

   Advanced – includes the International Settings and the Database Settings dialog boxes.

Note *If you choose* ***Typical*** *and this is the first time you are installing RADview-EMS, the* ***Database Settings*** *dialog box will display. Otherwise, if you are performing an upgrade and you choose Typical, the Database Settings dialog box will not display.*

5. Click <**Next**>.

   The General Information dialog box is displayed.

6. Select **Master Server**, and enter your **Zone Name** and **Area Name** (e.g., Zone = England, Area = London). These names determine the hierarchy levels in future topologies of multiple servers. Write down the names you selected and save them for later use. Check that you are using the correct station host name, and that it is listed as **Station Name**.

7. Click <**Next**>.

   The International Settings Dialog Box dialog box is displayed.

8. Select the **Language**, **Country**, and **Time Zone** for your station.

   The default values are taken from the operating system.

Note

- *RADview applications use only English language text. It is recommended to use English as the default language setting for RADview. You can select a different **Language**, which allows you to input text in languages other than English. RADview has been tested only with English as its default language and RAD cannot guarantee its proper operation in other languages.*
- *Select the **Country** according to the **Language** you selected.*
- *Select the appropriate **Time Zone** so that the time that is displayed in **Current Time Test** matches the correct time in your country and area.*

9. Click <**Next**>.

   The Select Target Database Server dialog box is displayed.

10. Select one of the following target database server:

    Oracle Database Server

    IBM Informix Server.

Note *Make sure that the database service (Oracle or Informix) is running.*

11. Click <**Next**>.

    Connecting to Database screen is displayed.

    After connection to the database is established, the Database Settings dialog box is displayed.

12. In the Database Settings dialog box, change **DbSpace Name** to **rootdbs**, **User** to **root** and **Password** to **<root password>**. For all the other parameters, leave the default values.

Note

- *If this is the first installation of the EMS package on your workstation and you want to use the Informix user instead of the Root user, perform the following steps:*
  1. *Open a Terminal window.*
  2. *Log in as **su** (superuser).*
  3. *Type **`passwd informix`** and set the password that you want to use as an Informix user. Retype the password to confirm.*
  4. *Use this user and password in the Database Settings dialog box.*
- *If a previous EMS server version was installed on your system with **User** = **Informix** and **Password** = **Informix**, you must use these settings again.*

13. For first-time installation on the station (skip this step if not relevant):

    Select **New Database = Yes**.

    Verify that the values displayed are correct and click <**Next**>.

    If a **new** Database is created, a warning message is displayed saying that the existing Database Information will be lost.

14. Click <**OK**>.

    The Install Summary dialog box is displayed.

15. Click <**Next**>.

    The Installation Progression dialog box is displayed.

    When it completes, the Installation Summary dialog box is displayed.

16. Click <**Finish**>.
17. Type: **`init 6`** to reboot the system.

    The Installation Done Window appears.

    RADview-EMS is fully installed and ready for use.

Installing Additional PC Clients (Optional)

In needed, additional PC-based clients can be installed on separate non-Unix stations. Additional client stations enable scalability of distribution, as explained in *Chapter 1*.

➤ **To install the Client Station on the PC station:**

1. Insert the RADview-EMS/TDM (PC) Installation CD into the CD-ROM drive.

   The RADview-EMS/TDM Setup window is displayed.

2. Install the following components:

   RADview Shell – only if this is a new installation

   RADview-EMS/TDM (Client Only).

Installing RADview Shell on the PC Client

Note *If this is an upgrade installation, do not install the RADview shell.*

➤ **To install the RADview Shell:**

1. On the **RADview-EMS/TDM Setup** Dialog Box, click **RADview Shell**.

   The Welcome dialog box is displayed.

2. Click <**Next**>.

The Choose Destination Location dialog box is displayed.

3. Use the default folder or click ‹**Browse**› to select the folder where RADview Shell will be installed. All further components of RADview-EMS installation will be installed in this folder. Click ‹**Next**›.

   The Select Program Folder dialog box is displayed.

4. Click ‹**Next**›.

   The RADview Platform Selection dialog box is displayed.

5. Select **Standalone Application**, and click ‹**Next**›.

   The Start Copying Files dialog box is displayed.

6. Click ‹**Next**›.

   The Setup Complete dialog box is displayed.

7. Click ‹**Finish**›.

Installing RADview-EMS/TDM on the PC Client

Note *If a RADview-EMS package is already installed on your workstation, delete the **'vpd.properties'** file from the root directory before performing the RADview-EMS/TDM installation.*

➤ **To install the RADview-EMS/TDM on the PC client:**

1. On the **RADview-EMS/TDM Setup** Dialog Box, click on **RADview-EMS/TDM**.

   The Welcome dialog box is displayed.

2. Click ‹**Next**›.

   The Select Installation Type dialog box is displayed.

3. Choose **Client**, click **<Next>** and an SNMPc warning dialog box opens.
4. Select whether to keep or overwrite the current MIBs and event policies, and click <**Next**>.

   The Select Products dialog box is displayed.
5. Select the product(s) you would like to install, and click <**Next**>.

   The Select Installation Method dialog box is displayed.
6. Select the setup type:

   Typical – for installation with the default settings

   Advanced – includes the International Settings dialog box.
7. Click <**Next**>.

   The General Information dialog box is displayed.
8. Enter the **Zone Name** and **Area Name** for the Client Station. Enter the Host Name of the Client Station for **Station Name**. Enter the IP address of the Master Server Unix Station for **Master Server Address**. Click <**Next**>.

Note *For a single-station installation, any string of characters without a space can be used for Zone/Area names.*

   The International Settings dialog box is displayed only if this is an Advanced installation (see step *6*). If this is a Typical installation, the Install Summary dialog box is displayed. Continue with step *10*.
9. Select the **Language**, **Country**, and **Time Zone** for your station, and click <**Next**>. The default values are taken from the operating system.

Note

- *RADview applications use only English language text. It is recommended to use English as the default language setting for RADview. You can select a different* ***Language****, which allows you to input text in languages other than English. RADview has been tested only with English as its default language and we cannot guarantee its proper operation in other languages.*
- *Select the* ***Country*** *according to the* ***Language*** *you selected.*
- *Select the appropriate* ***Time Zone*** *so that the time that is displayed in* ***Current Time Test*** *matches the correct time in your country and area.*

The Install Summary dialog box is displayed.

10. Click ‹**Next**›.

    The Installation Progression dialog box is displayed.

    When it completes, the Installation Summary dialog box is displayed.

11. Click ‹**Finish**›.

12. After the **RADview-EMS/TDM installation** has completed, the following message box is displayed.

13. Click **‹No›** since you are using the License Server that has already been installed with the EMS Server.

14. Return to the **RADview-EMS/TDM Setup** dialog box, click ‹**Exit**›, and then click ‹**Restart**› in the **Setup Complete** dialog box.

    RADview-EMS/TDM is fully installed and ready for use on the PC client.

Installation Notes

Changing the RADview-HPOV Installation Directory

By default, the RADview-HPOV installation script tries to install into the **/opt** partition. If your **/opt** partition lacks sufficient disk space, the installation script stops and indicates the minimum disk space needed to install the selected components.

In such a case, you can either free the required disk space or create a symbolic link to another location on the disk, which has sufficient disk space.

For example, if you would like to create a symbolic link between **/opt** and **/export/home** use the following procedure:

1. Create a new directory named **/export/home/MNG.**
2. Type: **`ln -s /export/home/MNG /opt/MNG`**

4. Post-Installation Steps

Before opening RADview-EMS/TDM (Unix), you must create a user, and then set the user environment to include the variables needed for RADview-EMS/TDM (Unix), HPOV, and Informix. It is recommended that you select C as the user's SHELL. For more information on user management, refer to *Chapter 6*.

Creating a User

➤ **To create a user:**

1. Log in as root user.
2. Type: **`smc`**

The Open Toolbox dialog box appears with the Solaris Management Console in the background.

3. Select the Server Toolbox tab, and choose your server name from the Server dropdown box.
4. From the Toolboxes list, select **This Computer** and click **Open**.

   The Solaris Management Console for the selected computer is displayed.
5. From the Navigation pane, select **System Configuration > Users**.

   The Log In menu is displayed.
6. Log in using Administrator credentials (**root**).

   The Solaris Management Console for the selected computer is displayed.
7. From the Navigation pane, select **System Configuration** > **Users** > **User Accounts**.
8. From the Action menu, select **Add User** > **With Wizard**.

   The Add New User wizard is initiated.
9. In the Add New User wizard, do the following:
   a. Enter the user information and click <**Next**>.
   b. Define the user identification number (it is recommended to use the default), and click <**Next**>.
   c. Define and confirm the new user password, and click <**Next**>.
   d. Select the new user primary group (it is recommended to use the default), and click <**Next**>.
   e. Create the new user home directory (e.g. **/export/home**) and click <**Next**>.

f. In the mail server dialog box, click ‹**Next**›.

g. Review the new user information and click **Finish**.

The Solaris Management Console for the selected computer is displayed.

10. Right-click the icon of the newly created user and select **Properties**.
11. From the General tab set the Login Shell to **C Shell**.
12. From the Console menu, select **Exit** to close the Solaris Management Console.
13. Reboot the management station to put the changes into effect.
14. Log in as the newly created user.
15. Select Common Desktop Environment (CDE) as the default desktop.
16. Edit the .cshrc file in the user home directory to add **`/usr/local/bin /usr/sbin`** to the following command:
    `set path = ($path /usr/local/bin /usr/sbin)` so that the command line appears as:
    `set path = ($path /usr/local/bin /usr/sbin)`
17. Save the **.cshrc** file.

Defining the User Environment

The RADview post installation user environment tool automates all post-installation procedures and completes the installation of RADview UNIX-based products. The script is written in csh. It can be used by both a new user and an existing user to test the user environment.

➤ **To set the user environment for a new user:**

1. After you create a new user and log in as the new user, type:
   /opt/MNG/MNGVIEWHP/bin/user_env.csh

   The script sets the user environment. The user files are edited automatically.

```
**********************************************************
*              RADview User Environment                  *
*  This script should run only on a Unix server, that is *
*  a dedicated RADview-HPOV installation.                *
*  This script sets the User Environment variables for a *
*  newly created user and performs User Environment tests*
*  for an existing user.                                 *
*  Run this script as RADview user and not as root.      *
*  This script must run under csh environment only.      *
*  User Environment variables are written into the       *
*  logfile user_env.log in the users home directory.     *
**********************************************************
```

```
  Setting User Environment for a new RADview user...
  Setting user files:
   /export/home/radview/.login
   /export/home/radview/.dtprofile
  User Environment files set successfully.
  Editing user file /export/home/radview/.cshrc
  Adding HPOV NNM /bin directory to the users path.
-----------------------------------------------------
User Environment parameters set successfully.
Logout and login again to activate the new User
Environment.
Run this script again after login to test the User
Environment settings.
-----------------------------------------------------
```

Figure 1. RADview User Environment Tool – New User

2. A message appears for you to log out and re-login (to activate the changes).
3. Run the script again to test the user environment.

5. Frequently Asked Questions on Installation

Q I forgot my RADview user's password. How can I recover it? Also, is there a default user name and password that I can use?

A The default user name and password for accessing RADview-EMS (via the LaunchDesk) are "**root**" for the user name and "**root**" for the password. However, if the default password of the root user has changed since the initial installation, then it is necessary to reset the password for your specific user name.

➤ **To reset the password:**

1. Stop the EMS server.
2. In the **/opt/MNG/MNGVIEWHP/ems/conf/sec/** directory, backup the file **svcsec.xml** (copy svcsec.xml to **svcsec.old.xml**).
3. Edit the file svcsec.xml as follows: find the **<database>** section in the syntax and add/change the following line:
   <admin><administrator>root</administrator></admin>.
4. Restart EMS server.
5. Log in to the server and add a new administrator user via the Security Admin console.
6. Stop the EMS server again.

7. Access the **svcsec.xml** file again and remove the previously added line: **<admin><administrator>root</administrator></admin>**.

   The password is now reset.

Q How can I change the Unix station's password without conflicting with the EMS server password?

A When the EMS server is installed and running, changing the Unix station's password may conflict with the EMS server application.

➤ **To change the Unix station's password without conflicting with the EMS server installation**

1. Copy the **ems.sql** file to the Informix database directory.
2. Log in as a RADview user (not as super user).
3. Start the EMS Server.
4. Verify that Informix is online by typing **/<informixdir>/bin/onstat** where **<informixdir>** is the Informix home directory.

   The following message (or a similar one) is displayed.

   Informix Dynamic Server Version 7.31.UD1 -- On-Line -- Up 4 days 22:45:47 --

5. After verifying that Informix is online, type: **$INFORMIXDIR/bin/dbaccess -e - ems.sql**

   Make sure that no errors are reported.

   The following syntax is displayed.

```
*******************************************************
# $INFORMIXDIR/bin/dbaccess -e - ems.sql
-- This file should be executed using
-- $INFORMIXDIR/bin/dbaccess -e - ems.sql

DATABASE ems;
Database selected.

GRANT CONNECT TO PUBLIC;
Permission granted.

GRANT RESOURCE TO PUBLIC;
Permission granted.

GRANT ALL ON ems.fm_event_v TO PUBLIC AS ems

Permission granted.
Database closed.
*******************************************************
```

6. Open the EMS LaunchDesk and click the RADview-EMS system console button (green button).
7. Select the **Datasource repository** service (under process1).
8. Change the username to **mng164** and the password to **mng164**.
9. Click **set** for setting the entered username and password.
10. Close all GUI dialog boxes and consoles.
11. Stop the EMS server.

12. Restart the EMS server.

    From this point onwards, the server operates with the username **mng164** and the password **mng164**.

6. Uninstalling the RADview Package

Uninstalling RADview

➤ **To uninstall the RADview-EMS system:**

1. Log in as superuser: **su**.
2. Type: **/opt/MNG/MNGVIEWHP/ems/uninstall/uninstall**.
3. In the dialog box that is displayed, select the products that you want to uninstall.
4. Delete the 'EMS' directory.
5. In the root (' / ') directory, search for the '**vpd.properties**' file and then delete this file.

➤ **To uninstall the RADview shell:**

1. Access the user's home directory.
2. Type: **csh**.
3. Type: **source /opt/OV/bin/ov.envvars.csh**.
4. Type: **source /opt/MNG/MNGVIEWHP/bin/mng164_uninstall.csh**.
5. Type: **cd /opt/**
6. Type: **rm -r MNG**

7. Type: **cd/etc/opt/OV/share/registration/C**
8. Type: **rm mng164* <Enter>**
9. Type: **init 6**.

Uninstalling the Database

➤ To uninstall the Informix database:

1. Log in as **su**
2. Type: **csh**
3. Type: **setenv INFORMIXDIR <informix home directory>**
4. Type: **<informix home directory>/i_uninstall**
5. Type **y** in the three consecutive confirmation messages.
6. Using admintool, remove the Informix user and group.
7. Remove Informix-marked lines from the **/etc/system** file.
   These lines start with:
   *** informix additions – enabling semaphores**
   and end with:
   *** end informix additions**

Innovative Access Solutions

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